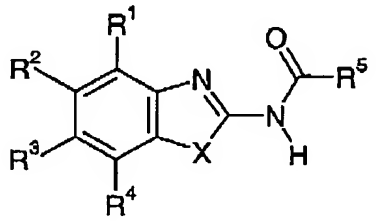
AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings of claims in the application.

1. (Currently amended) A compound of formula I,



I

wherein:

R^1 and R^4 are each, independently,

H;

C_1-C_{10}-alkyl, C_2-C_{10}-alkenyl or C_2-C_{10}-alkynyl, each of which is optionally substituted one or more times by F, OH, C_1-C_8-alkoxy, C_1-C_8-alkylmercapto, -CN, $COOR^6$, $CONR^7R^8$, phenyl or heteroaryl, wherein the phenyl and heteroaryl are each independently optionally substituted one or more times by halogen, -CN, C_1-C_3-alkyl, C_1-C_3-alkoxy or CF_3;

phenyl or heteroaryl, each of which is optionally substituted one or more times by halogen, -CN, C_1-C_3-alkyl, C_1-C_3-alkoxy or CF_3;

COR^9;

$CONR^{10}R^{11}$;

$COOR^{12}$;

CF_3;

halogen;

-CN;

$NR^{13}R^{14}$;

OR^{15};

$S(O)_mR^{16}$;

$SO_2NR^{17}R^{18}$; or

NO_2;

R^2 and R^3 are each, independently,

H;

halogen;

-CN;

C_1-C_{10}-alkyl, optionally substituted one or more times by OH, phenyl, or heteroaryl;
OH;
C_1-C_{10}-alkoxy;
phenoxy;
$S(O)_mR^{19}$;
CF_3;
NO_2;
C_1-C_{10}-alkylamino;
di(C_1-C_{10}-alkyl)amino;
(C_1-C_6-alkyl)-CONH-;
phenyl-CONH- or phenyl-SO_2-O-, wherein the phenyl is optionally substituted one or more times by halogen, -CN, methyl or methoxy;
C_1-C_6-alkyl-SO_2-O-;
(C_1-C_6-alkyl)-CO-, wherein the C_1-C_6-alkyl is optionally substituted one or more times by F, di(C_1-C_3-alkyl)amino, pyrrolidinyl or piperidinyl; or
phenyl-CO-, wherein the phenyl is optionally substituted one or more times by C_1-C_3-alkyl, halogen or methoxy;

R^5 is ~~Ar or Hetar, each of~~ indolyl which is optionally substituted one or more times by
halogen;
-CN;
NH_2;
C_1-C_{10}-alkyl, C_2-C_{10}-alkenyl, C_2-C_{10}-alkynyl, C_1-C_{10}-alkoxy, C_1-C_{10}-alkylamino or di(C_1-C_{10}-alkyl)amino, wherein the alkyl, alkenyl, alkynyl and alkoxy are each independently optionally substituted one or more times by F, OH, C_1-C_8-alkoxy, aryloxy, C_1-C_8-alkylmercapto, NH_2, C_1-C_8-alkylamino or di(C_1-C_8-alkyl)amino;
C_3-C_5-alkandiyl;
phenyl;
heteroaryl;
aryl-substituted or heteroaryl-substituted C_1-C_4-alkyl;
CF_3;
NO_2;
OH;
phenoxy;
benzyloxy;
(C_1-C_{10}-alkyl)-COO-;
$S(O)_mR^{20}$;
SH;
phenylamino;

benzylamino;

$(C_1-C_{10}$-alkyl)-CONH-;

$(C_1-C_{10}$-alkyl)-CO-N(C_1-C_4-alkyl)-;

phenyl-CONH-;

phenyl-CO-N(C_1-C_4-alkyl)-;

heteroaryl-CONH-;

heteroaryl-CO-N(C_1-C_4-alkyl)-;

$(C_1-C_{10}$-alkyl)-CO-;

phenyl-CO-;

heteroaryl-CO-;

CF_3-CO-;

$-OCH_2O-$;

$-OCF_2O-$;

$-OCH_2CH_2O-$;

$-CH_2CH_2O-$;

$COOR^{21}$;

$CONR^{22}R^{23}$;

$C(NH)-NH_2$;

$SO_2NR^{24}R^{25}$;

$R^{26}SO_2NH-$;

$R^{27}SO_2N(C_1-C_6$-alkyl)-; or

a residue of a saturated or unsaturated aliphatic, monocyclic 5-membered to 7-membered heterocycle containing 1, 2 or 3 heteroatoms selected from the group consisting of N, O and S, wherein the heterocycle is optionally substituted one or more times by halogen, C_1-C_3-alkyl, C_1-C_3-alkoxy, OH, oxo or CF_3, and the heterocycle is optionally condensed to the ~~group Ar or the group Hetar~~indolyl group;

wherein all aryl, heteroaryl, phenyl, aryl-containing, heteroaryl-containing and phenyl-containing groups, which are optionally present in the said substituents of the ~~said group Ar or the said group Hetar~~indolyl group, can be substituted by one or more substituents selected from the group consisting of halogens, -CN, C_1-C_3-alkyl, OH, C_1-C_3-alkoxy, and CF_3;

R^6 is H;

C_1-C_{10}-alkyl, optionally substituted one or more times by F, C_1-C_8-alkoxy or di(C_1-C_8-alkyl)amino;

aryl-(C_1-C_4-alkyl)- or heteroaryl-(C_1-C_4-alkyl)- either of which is optionally substituted one or more times by halogen, C_1-C_4-alkyl, C_1-C_4-alkoxy or di(C_1-C_6-alkyl)amino;

R^7 is H;

C_1-C_{10}-alkyl, optionally substituted one or more times by F, C_1-C_8-alkoxy, di(C_1-C_8-alkyl)amino or phenyl; or

phenyl, indanyl or heteroaryl, each of which is optionally substituted one or more times by halogen, -CN, C_1-C_3-alkyl, C_1-C_3-alkoxy or CF_3;

R^8 is H or C_1-C_{10}-alkyl;

R^9 is C_1-C_{10}-alkyl, optionally substituted one or more times by F, C_1-C_4-alkoxy or di(C_1-C_3-alkyl)amino; or phenyl or heteroaryl, each of which is optionally substituted one or more times by C_1-C_3-alkyl, C_1-C_3-alkoxy, halogen, -CN or CF_3;

R^{10}, independently from R^7, is R^7;

R^{11}, independently from R^8, is R^8;

R^{12}, independently from R^6, is R^6;

R^{13} is H;
C_1-C_6-alkyl; or
phenyl, benzyl, heteroaryl, (C_1-C_6-alkyl)-CO-, phenyl-CO-, or heteroaryl-CO-, each of which is optionally substituted one or more times by halogen, -CN, C_1-C_3-alkyl, C_1-C_3-alkoxy or CF_3;

R^{14}, independently from R^{13}, is R^{13};

R^{15} is H;
C_1-C_{10}-alkyl;
(C_1-C_3-alkoxy)-C_1-C_3-alkyl-;
benzyl, phenyl or heteroaryl, each of which is optionally substituted one or more times by halogen, -CN, C_1-C_3-alkyl, C_1-C_3-alkoxy or CF_3;

R^{16} is C_1-C_{10}-alkyl, optionally substituted one or more times by F, OH, C_1-C_8-alkoxy, aryloxy, C_1-C_8-alkylmercapto, C_1-C_8-alkylamino or di(C_1-C_3-alkyl)amino;
CF_3; or
phenyl or heteroaryl, each of which is optionally substituted one or more times by halogen, -CN, C_1-C_3-alkyl, C_1-C_3-alkoxy or CF_3;

R^{17}, independently from R^7, is R^7;

R^{18}, independently from R^8, is R^8;

R^{19}, independently from R^{16}, is R^{16};

R^{20}, independently from R^{16}, is R^{16};

R^{21}, independently from R^{6}, is R^{6};

R^{22}, independently from R^{7}, is R^{7};

R^{23}, independently from R^{8}, is R^{8};

R^{24}, independently from R^{7}, is R^{7};

R^{25}, independently from R^{8}, is R^{8};

R^{26}, independently from R^{16}, is R^{16};

R^{27}, independently from R^{16}, is R^{16};

R^{30} is H;

C_1-C_{10}-alkyl, C_2-C_{10}-alkenyl or C_2-C_{10}-alkynyl, each of which is optionally substituted one or more times by F, OH, C_1-C_8-alkoxy, C_1-C_8-alkylmercapto, -CN, $COOR^{31}$, $CONR^{32}R^{33}$, $NR^{34}R^{35}$, (C_1-C_8-alkyl)-CONH-, (C_1-C_8-alkoxy)-CONH-, benzyloxy-CONH-, phenyl or heteroaryl, wherein the phenyl and heteroaryl are each independently optionally substituted one or more times by halogen, -CN, C_1-C_3-alkyl, C_1-C_3-alkoxy or CF_3; or

phenyl or heteroaryl, each of which is optionally substituted one or more times by halogen, -CN, C_1-C_3-alkyl, C_1-C_3-alkoxy or CF_3;

R^{31}, independently from R^{6}, is R^{6};

R^{32}, independently from R^{6}, is R^{6};

R^{33}, independently from R^{6}, is R^{6};

R^{34}, independently from R^{6}, is R^{6};

R^{35}, independently from R^{6}, is R^{6};

X is ~~NR^{30}, S, O, CH=CH, N=CH or CH=N~~;

heteroaryl is a residue of a 5-membered to 10-membered, aromatic, monocyclic or bicyclic heterocycle containing one or more heteroatoms selected from the group consisting of N, O and S;

~~the group Hetar is a residue of a 5-membered to 10-membered, aromatic, monocyclic or bicyclic heterocycle containing one or more heteroatoms selected from the group consisting of N, O and S;~~

aryl is phenyl, naphth-1-yl or naphth-2-yl;

~~the group Ar is phenyl, naphth-1-yl or naphth-2-yl;~~ and

m is 0, 1 or 2;

provided that the compound is not 2-methyl-6-trifluoromethyl-1H-indole-3-carboxylic acid benzothiazol-2-ylamide;

or a stereoisomer or a mixture of stereoisomers thereof in any ratio, or a pharmaceutically acceptable salt thereof.

2-5. (Cancelled)

6. (Currently amended) ~~A~~The compound according to claim 1, wherein:

R^1 and R^4 are each, independently,

H;

Halogen; or

C_1-C_4-alkyl;

and

R^2 and R^3 are each, independently,

H;

Halogen; or

C_1-C_4-alkyl.

7. (Currently amended) ~~A~~The compound according to claim 1, wherein:

R^5 is ~~phenyl or Hetar, each of~~indolyl which is optionally substituted one or more times by

halogen;

-CN;

NH_2;

C_1-C_6-alkyl, C_2-C_6-alkenyl, C_2-C_6-alkynyl, C_1-C_3-alkoxy, C_1-C_4-alkylamino or di(C_1-C_4-alkyl)amino, each of which is optionally substituted one or more times by F, C_1-C_3-alkoxy, C_1-C_3-alkylmercapto or NH_2;

C_3-C_5-alkandiyl;

phenyl;

heteroaryl;

phenyl-substituted or heteroaryl-substituted C_1-C_2-alkyl;

CF_3;

OH;

(C_1-C_4-alkyl)-COO;

$S(O)_m$-(C_1-C_4)-alkyl;

(C_1-C_6-alkyl)-CONH-;

(C_1-C_4-alkyl)-CON(C_1-C_4-alkyl)-;

(C_1-C_4-alkyl)-CO-;

phenyl-CO-;

heteroaryl-CO-;

CF_3-CO-;

-OCH_2O-;

-OCF_2O-;

-OCH_2CH_2O-;

-CH_2CH_2O-;

-COO(C_1-C_6-alkyl);

-$CONH_2$;

-CONH(C_1-C_4-alkyl);

-CON(di(C_1-C_4-alkyl));

-$C(NH)NH_2$;

-SO_2NH_2;

-SO_2NH(C_1-C_4-alkyl);

-SO_2NH(phenyl);

-SO_2N(di(C_1-C_4-alkyl));

(C_1-C_4-alkyl)-SO_2NH-;

(C_1-C_4-alkyl)-SO_2N(C_1-C_4-alkyl)-; or

a residue of a saturated or unsaturated aliphatic, mononuclear 5-membered to 7-membered heterocycle containing 1, 2 or 3 heteroatoms selected from the group consisting of N, O and S, wherein the heterocycle is optionally substituted one or more times by halogen, C_1-C_3-alkyl, C_1-C_3-alkoxy, OH, oxo or CF_3, and the heterocycle is optionally condensed to the ~~said phenyl or the said group Hetar~~indolyl group;

wherein all heteroaryl, phenyl, heteroaryl-containing and phenyl-containing groups, which are optionally present in the said substituents of the ~~said phenyl or the said group Hetar~~indolyl group, can be substituted by one or more substituents selected from the group consisting of halogen, -CN, C_1-C_3-alkyl, OH, C_1-C_3-alkoxy, and CF_3.

8. (Currently amended) A pharmaceutical composition comprising a pharmaceutically effective amount of ~~a~~the compound according to claim 1 and a pharmaceutically acceptable carrier.

9. (Currently amended) A method for the stimulation of the expression of endothelial NO synthase, in a patient in need thereof, comprising administering to the patient a pharmaceutically effective amount of ~~a~~the compound according to claim 1.

10. (Currently amended) A method for the treatment of cardiovascular diseases, stable or unstable angina pectoris, coronary heart disease, Prinzmetal angina, acute coronary syndrome, heart failure, myocardial infarction, stroke, thrombosis, peripheral artery occlusive disease, endothelial dysfunction, atherosclerosis, restenosis, endothel damage after PTCA, hypertension, essential hypertension, pulmonary hypertension, secondary hypertension, renovascular hypertension, chronic glomerulonephritis, erectile dysfunction, ventricular arrhythmia, diabetes, diabetes complications, nephropathy, retinopathy, angiogenesis, asthma bronchiale, chronic renal failure, cirrhosis of the liver, osteoporosis, restricted memory performance or a restricted ability to learn, or for the lowering of cardiovascular risk of postmenopausal women or of women taking contraceptives, in a patient in need thereof, comprising administering to the patient a pharmaceutically effective amount of ~~a~~the compound according to claim 1.

11. (New) The compound according to claim 1, wherein

R^5 is indolyl which is attached via ring carbon atom and which is optionally substituted one or more times by:

halogen;

-CN;

NH_2;

C_1-C_{10}-alkyl, C_2-C_{10}-alkenyl, C_2-C_{10}-alkynyl, C_1-C_{10}-alkoxy, C_1-C_{10}-alkylamino or di(C_1-C_{10}-alkyl)amino, wherein the alkyl, alkenyl, alkynyl and alkoxy are each independently optionally substituted one or more times by F, OH, C_1-C_8-alkoxy, aryloxy, C_1-C_8-alkylmercapto, NH_2, C_1-C_8-alkylamino or di(C_1-C_8-alkyl)amino;

C_3-C_5-alkandiyl;

phenyl;

heteroaryl;

aryl-substituted or heteroaryl-substituted C_1-C_4-alkyl;

CF_3;

NO_2;

OH;

phenoxy;

benzyloxy;

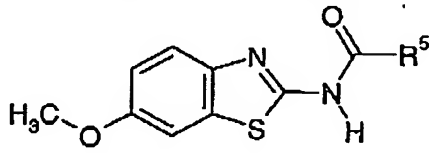
(C_1-C_{10}-alkyl)-COO-;

$S(O)_mR^{20}$;

SH;
phenylamino;
benzylamino;
(C_1-C_{10}-alkyl)-CONH-;
(C_1-C_{10}-alkyl)-CO-N(C_1-C_4-alkyl)-;
phenyl-CONH-;
phenyl-CO-N(C_1-C_4-alkyl)-;
heteroaryl-CONH-;
heteroaryl-CO-N(C_1-C_4-alkyl)-;
(C_1-C_{10}-alkyl)-CO-;
phenyl-CO-;
heteroaryl-CO-;
CF_3-CO-;
$-OCH_2O-$;
$-OCF_2O-$;
$-OCH_2CH_2O-$;
$-CH_2CH_2O-$;
$COOR^{21}$;
$CONR^{22}R^{23}$;
C(NH)-NH_2;
$SO_2NR^{24}R^{25}$;
$R^{26}SO_2NH$-;
$R^{27}SO_2N$(C_1-C_6-alkyl)-; or
a residue of a saturated or unsaturated aliphatic, monocyclic 5-membered to 7-membered heterocycle containing 1, 2 or 3 heteroatoms selected from the group consisting of N, O and S, wherein the heterocycle is optionally substituted one or more times by halogen, C_1-C_3-alkyl, C_1-C_3-alkoxy, OH, oxo or CF_3, and the heterocycle is optionally condensed to the indolyl group;

wherein all aryl, heteroaryl, phenyl, aryl-containing, heteroaryl-containing and phenyl-containing groups, which are optionally present in the said substituents of the indolyl group, can be substituted by one or more substituents selected from the group consisting of halogens, -CN, C_1-C_3-alkyl, OH, C_1-C_3-alkoxy, and CF_3.

12. (New) The compound according to claim 1 of formula Ik:



Ik